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ABSTRACT

This document, developed for the State of New Hampshire, is designed to help individuals, schools, and communities get started in the development and implementation of environmental education programs by providing lists of New Hampshire environmental education programs and resource materials. The following are listed in this publication: the publications of the Environmental Education Planning Council; elementary and secondary environmental education programs; resource teachers and people; college programs; places for field trips; school camping; summer youth programs; curriculum materials; environmental education bibliographies and film lists; New Hampshire film sources; periodicals; a selected reading list; and agencies and organizations on the state, private, and national level which offer training, assistance and information. (BT)

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ENVIRONMENTAL EDUCATION RESOURCES AND PROGRAMS

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INTRODUCTION

The Environmental Education Planning Council, comprised of 23 leaders from a broad spectrum of interest groups throughout the state, has been meeting for two years. It is co-sponsored by the Society for the Protection of New Hampshire Forests, the New Hampshire Charitable Fund and Affiliated Trusts, the Audubon Society of New Hampshire, the Cooperative Extension Service, and the State Department of Education, and has the support of a broad spectrum of additional agencies, groups, individuals, and organizations. The Council is funded by grants from the Spaulding-Potter Charitable Trust and the United States Office of Education's Environmental Education Act of 1970.

The Council will complete the development of an environmental education plan for the State of New Hampshire by September 1973. This plan will assess the State's environmental education needs; include an evaluation of statewide and regional resources for environmental education available to local communities; and serve as a guide to assist local communities in implementing environmental education programs.

The purpose of this publication on Environmental Education Resources and Programs is to help individuals, schools, and communities get started in the development and implementation of environmental education programs by providing them with an answer to the question, "Where do I turn for help?" In general, the lists in this document, although comprehensive, are by no means exhaustive. However, we have tried to include a complete listing of New Hampshire resources and programs. We hope the reader will be concerned enough to inform us of any omissions and to advise us of the creation of new environmental education programs so the lists may be kept up-to-date through revisions and supplementary mailings.

COUNCIL PUBLICATIONS

1973 NEEDS ASSESSMENT REPORT issued as ADDENDUM NUMBER ONE to: ENVIRONMENTAL EDUCATION FOR NEW HAMPSHIRE. August 1973.

ENVIRONMENTAL EDUCATION RESOURCES AND PROGRAMS issued as ADDENDUM NUMBER TWO to: ENVIRONMENTAL EDUCATION FOR NEW HAMPSHIRE. September 1973.

ENVIRONMENTAL EDUCATION FOR NEW HAMPSHIRE. A Guide to Assist Local Communities in the Implementation of Environmental Education Programs. To be issued October 1973.

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ELEMENTARY AND SECONDARY ENVIRONMENTAL EDUCATION PROGRAMS

Although many New Hampshire teachers include ecological concerns in their courses, only a limited number of schools have comprehensive environmental education programs that involve more than one class or are interdisciplinary in nature. The following list includes those schools that have come to our attention as having such a program. We believe that contact with the person in charge of each of these programs or a visit to their school will provide answers to some of the questions on how to get started with an environmental education program.

Alvirne High School, Derry Road, Hudson, N.H. 03051

Contact: Wilbur H. Palmer, Director, Vocational Agriculture, Alvirne High School (Tel. 889-0131)

Program: Training for effective citizenship in the area of environmental concerns. The program includes group dynamics and citizen action as well as the use of formal curriculum materials in environmental science. Funded by Vocational Education Exemplary Schools Program (PL 90-576).

Conant High School, 109 Stratton Road, Jaffrey, N.H. 03452

Contact: Keith Burke or Douglas Gilroy, Conant High School (Tel. 532-7756)

Program: Development of a project-centered, integrated curriculum covering botany, ecology. agriculture, conservation, and related subjects. Special emphasis is placed on environmental protection and study projects involving the use of the greenhouse facility at Conant.

Concord School Environmental Education Project (Concord SEE)

Contact: Edwina H. Czajkowski, Director, Morrill School, 16 Rumford Street, Concord, N.H. 03301 (Tel. 225-3326)

Program: Directed by the Audubon Society of New Hampshire in cooperation with the Concord Union School District. In addition, St. Paul's School has made its 500-acre Turkey Pond site available for use as an outdoor laboratory. The project stresses continuous environmental education at the elementary school level, presented in an interdisciplinary manner rather than as a separate subject.

SEE maintains a resource center, publishes newsletters, organizes field trips, plans special projects, and is working to develop an environmental education curriculum in each of Concord's schools. Has had funding from New Hampshire Tomorrow and the Audubon Society of New Hampshire.

Contoocook Valley Regional High School, Hancock Road, Peterborough, N.H. 03458

Contact: Ronald Dunham, Chairman, Science Department, Contoocook Valley Regional High School (Tel. 924-3869)

Program: Newly written environmental studies program involves mostly field work. Students discover how to study and experiment in forest, field, and pond environments. Students are provided with an oral evaluation of their work by the teachers. A second program in field ecology provides 91-minute blocks of time where students experience the out-of-doors through hiking, canoeing, snowshoeing, etc.

Derryfield School, 2108 N. River Road, Manchester, N.H. 03104

Contact: Wendell Barry, Jr., Chairman, Science Department, Derryfield School (Tel. 669-4524)

Program: The development of a process curriculum which started in the biology courses. Emphasis was placed on a multi-disciplinary approach to the study of a particular watershed area. The students have initiated a community-based recycling program. The outdoor portion of the program is being expanded to include a modified Outward Bound approach. Funded under PL 91-516, the Environmental Education Act of 1970 during school year 1972-73.

Hanover-Norwich-Dresden School Districts Elementary-Middle School Program

Contact: Ronald N. Bailey, Director of Environmental Studies, Hanover Middle School, Hanover, N.H. 03755 (Tel. 643-3431)

Program: Development and use of natural areas in the curriculum. Training of teachers and teacher aides in the use of natural areas. Completely new science program emphasizing the environment, two social studies courses on selected local environmental problems, an English course examining man's relation to nature as viewed through literature, and an environmental chemistry course. Has had funding from New Hampshire Tomorrow and PL 91-516.

Hanover Senior High School, Lebanon Street, Hanover, N.H. 03755

Contact: John E. Hutchins, Director, Mink Brook Study Project, Hanover Senior High School (Tel. 643-3431)

Program: Involves students and teachers in gathering data over several years concerning a natural brook eco-system and the effects of man's activities on that system. The development of associated multidisciplinary curriculum materials and home-made equipment for use at various grade levels. Has had funding from New Hampshire Tomorrow.

Kearsarge Regional High School, North Sutton, N.H. 03260

Contact: Luther Sweet, Kearsarge Regional High School (Tel. 927-4261)

Program: Development of curriculum and supplementary materials for high school classes and community citizens. Involving travel to and study of various ecological habitats not otherwise easily available to the school. Funded during school year 1972-73 under PL 91-516.

Keene High School, Arch Street, Keene, N.H. 03431

Contact: Richard Tremblay, Science Department Chairman, Keene High School (Tel. 352-0640)

Program: The environmental science project, based on student-centered activities, attempts to develop an awareness, provide the knowledge, and encourage the action which will lead to the solution of environmental problems specific to the Keene area. Designed for students who have had limited academic success, this program brings together the various disciplines of science into one relevant area of concern. A new program for the fall of 1973 will expose students to the basic concepts of ecology using the Monadnock Region as a study area. The major approach is to identify why a knowledge of ecological concepts is important in decision making for resource management.

Manchester West High School, 9 Notre Dame Ave., Manchester, N.H. 03102

Fiscal Agent: James W. Morrison, Administrative Assistant, St. Anselm's College, Manchester, N.H. 03102

Contact: James Hall, Chairman, Science Department, West High School (Tel. 668-2243)

Program: Environmental science centering around HACH kit and Millipore testing of the Manchester watershed area. Students have developed and present slide shows and films on water testing techniques to community groups. An in-service training program in water testing has been developed and is being offered for teacher groups. Funded during school year 1971-72, 1972-73, and 1973-74 under PL 91-516.

Monadnock Regional High School, Swanzey Center, RFD #1, Keene, N.H. 03431

Contact: Douglass Leslie, Monadnock Regional High School (Tel. 352-6575)

Program: The students have developed the natural area surrounding the school into a nature study site which is used as a laboratory to expand several courses. The area includes a river, open fields, and woodlands. Has had funding under ESEA, Title III.

Stevens High School, Broad Street, Claremont, N.H. 03743

Contact: John Stoughton, Chairman, Mathematics Department, Stevens High School (Tel. 542-9931)

Program: An experiential learning project using many Outward Bound concepts. Communication, cooperation, and trust are developed as tools for survival in an outdoor camping experience. The enjoyment of the natural world as well as an understanding of ecological principles is stressed. An intensive sophomore physical education program is a pre-requisite.

Stratford High School, North Stratford, N.H. 03590

Contact: Dr. Richard Peters, Environmental Program Director, Groveton Elementary School, Groveton, N.H. 03582 (Tel. 636-1806)

Program: Extensive development of two outdoor study sites, one for school camping programs; and staff training in the educational use of the sites. Emphasis is being placed on the students' biological, economic, and esthetic relationship to the natural world. The sites will be used to explore nature-related vocations and to develop skills in communication, problem solving, and decision making. Funded by Experimental Schools Office, National Institute of Education.

Tilton School, School Street, Tilton, N.H. 03276

Contact: Richard Fabian, Tilton School (Tel. 286-4342)

Program: Well known for its Water Pollution Study Program, the school has embarked on a modified Outward Bound concept. The students are led to test and mature their perceptions of themselves and others through an integration of creative arts, outdoor experience including backpacking and camping, team athletics, community service projects, leadership roles, and academic studies. In addition, the humanities/mathematics-science departments offer an integrated program of studies.

RESOURCE TEACHERS

The following active, concerned teachers have a demonstrated interest in environmental education. Even though their school may not have a schoolwide program, these people are doing something in their own classrooms. In addition, they all have participated in the Council's meetings and workshops, have provided input for the State Plan, and have indicated their willingness to share their ideas with others.

Secondary School Teachers

B. K. Ayers, Holderness School, Holderness, N.H. 03245 (Tel. 536-1257)

Charles Barksdale, Derryfield School, 2108 N. River Road, Manchester, N.H. 03104 (Tel. 669-4524)

Wendell Barry, Derryfield School, 2108 N. River Road, Manchester, N.H. 03104 (Tel. 669-4524)

Shirley A. Colby, Alvirne High School, Derry Road, Hudson N.H. 03051 (Tel. 889-0131)

Richard Fabian, Tilton School, School Street, Tilton, N.H. 03276 (Tel. 286-4342)

Marie Forsberg, Laconia High School, 345 Union Ave., Laconia, N.H. 03246 (Tel. 524-3350)

James Hall, West High School, 9 Notre Dame Avenue, Manchester, N.H. 03102 (Tel. 668-2243)

Stanley J. Kuzia, Alvirne High School, Derry Road, Hudson, N.H. 03051 (Tel. 889-0131)

Herbert S. Moyer, Winnacunnet High School, Old Landing Road, Hampton, N.H. 03842 (Tel. 926-3395)

Mildred Plamondon, Laconia High School, 345 Union Avenue, Laconia, N.H. 03246 (Tel. 524-3350)

Susan Roberts, Belmont High School, Belmont, N.H. 03220 (Tel. 267-3651)

Marco H. Scheer, Nashua High School, Elm Street, Nashua, N.H. 03060 (Tel. 883-7042)

Lillian Scranton, Stevens High School Annex, Hanover Street, Claremont, N.H. 03743 (Tel. 542-4045)

Wayne Shipman, Kingswood Regional High School, South Main St., Wolfeboro, N.H. 03894 (Tel. 569-2055)

Norman Van Cor, West High School, 9 Notre Dame Avenue, Manchester, N.H. 03102 (Tel. 668-2243)

Eric Waleryszak, White Mountain Regional High School, Whitefield, N.H. 03598 (Tel. 837-2528)

William H. Wood, Pinkerton Academy, Pinkerton Street, Derry, N.H. 03038 (Tel. 432-2588)

Elementary and Junior High School Teachers

Helen Abbott, Milton Elementary School, Milton, N.H. 03851 (Tel. 652-4539)

Carole Aleskevitz, Hollis Elementary School, 36 Silver Lake Road, Hollis, N.H. 03049 (Tel. 465-7790)

Lee Andrews, Oyster River Middle School, Durham, N.H. 03824 (Tel. 868-2820)

Leonard Bernard, Hood Memorial School, 37 Mt. Pleasant Drive, Derry, N.H. 03038 (Tel. 432-9511)

Ann H. Brown, New London Elementary School, New London, N.H. 03257 (Tel. 526-6415)

Kevin Dalton, Principal, Rye Elementary School, 461 Sagamore Road, Rye, N.H. 03870 (Tel. 436-4731)

Marcia Hall, Londonderry Junior High School, Londonderry, N.H. 03053 (Tel. 434-4123)

Larry Hodgdon, New London Central School, New London, N.H. 03257 (Tel. 526-6415)

Margaret Howe, New London Central School, New London, N.H. 03257 (Tel. 526-6415)

Cornelia Iselin, Bellows Falls Middle School, Bellows Falls, Vt. 05101 (Tel. 802/463-3785)

Frances W. Kelsey, Bernice A. Ray School, Reservoir Road, Hanover, N.H. 03755 (Tel. 643-3431)

Beneš Konečný, Bales Elementary School, Milford, N.H. 03055 (Tel. 673-1811)

Sheila Linehan, Hampton Junior High School, Hampton, N.H. 03842 (Tel. 926-2000)

Linda E. Marchand, Hampton Junior High School, Hampton, N.H. 03842 (Tel. 926-2000)

Mildred M. Moody, Hollis Elementary School, 36 Silver Lake Road, Hollis, N.H. 03049 (Tel. 465-7790)

Philip Murphy, Bow Memorial School, Bow Center Road, Bow, N.H. 03301 (Tel. 225-3212)

William Powers, Gilford Elementary School, RFD #5, Laconia, N.H. 03246 (Tel. 524-1661)

Dorothy F. Purington, Gilford Elementary School, RFD #5, Laconia, N.H. 03246 (Tel. 524-1661)

Fay Stinson, Jacques School, Milford, N.H. 03055 (Tel. 673-1811)

John E. Vadeboncoeur, Londonderry Junior High School, Londonderry, N.H. 03053 (Tel. 434-4123)

RESOURCE PEOPLE

By virtue of their profession or experience, the following are available, as their schedules permit, to serve as sources of information in developing and implementing an environmental education program. Letters following each listing indicate the person's particular area of expertise (see key at end of list).

David N. Allan, Biologist, USDA Soil Conservation Service, Federal Building, Durham, N.H. 03824 (Tel. 868-7581) a, b, f.

Peter Allen, Research Forester, Division of Resource Development, Department of Resources & Economic Development, State House Annex, Concord, N.H. 03301 (Tel. 271-3456) a, b, d, f.

Floyd Barker, Environmental Specialist, Cooperative Extension Service, Morrill Hall, University of New Hampshire, Durham, N.H. 03824 (Tel. 862-1700) b, c.

J. Willcox Brown, Consulting Forester, Dunbarton, RFD #2, Concord, N.H. 03301 (Tel. 774-3152) a, d, f.

Dr. Robert Chaffee, Curator, Dartmouth Museum, Wilson Hall, Dartmouth College, Hanover, N.H. 03755 (646-2348) b, c, e, f.

Leslie S. Clark, Educational Director, Society for the Protection of N.H. Forests, 5 South State Street, Concord, N.H. 03301 (Tel. 224-9945) a, b, c, f.

Edwina Czajkowski, Director, Concord SEE Project, Morrill School, 16 Rumford Street, Concord, N.H. 03301 (Tel. 225-3326) b, c, d, e, f.

William B. Ewert, Consultant, Science Education, State Department of Education, 64 North Main Street, Concord, N.H. 03301 (Tel. 271-3293) a, b, c, f.

Delmar Goodwin, Director, Regional Center for Education Training, Wilson Hall, Dartmouth College, Hanover, N.H. 03755 (Tel. 643-4564) b, c, f, g.

Stephen Harper, Information and Education Staff Officer, White Mountain National Forest, P.O. Box 638, Laconia, N.H. 03246 (Tel. 524-6450) a, b, c, d, e, f.

Carter B. Hart, Jr., Consultant, Social Studies, State Department of Education, 64 North Main Street, Concord, N.H. 03301 (Tel. 271-3609) b, c.

William Hauck, Project Coordinator, North Country Resources Conservation & Development Project, Post Office Building, Littleton, N.H. 03561 (Tel. 444-7744) a, b, f.

Albion Hodgdon, Professor of Botany, Nesmith Hall, Durham, N.H. 03824 (Tel. 862-2060) d, f.

Gilbert Merrill, Director, Squam Lakes Science Center, P. O.Box 146, Holderness, N.H. 03245 (Tel. 968-7194) b, c, f.

Ty Minton, Program Coordinator, Antioch MST Program, Putney School, Putney, Vt. 05346 (Tel. 802/387-6615) a, b, c, d, f.

Randall Morse, Keene High School, Arch Street, Keene, N.H. 03431 (Tel. 352-0640) c, f.

James Mullins, Assistant Director, Audubon Society of New Hampshire, 3 Silk Farm Road, Concord, N.H. 03301 (Tel. 224-9909) b, c, e, f.

John Nutter, Educational Director, AMC Northern New England Regional Office, Pinkham Notch Camp, Gorham, N.H. 03581 (Tel. 466-3994) b, c, d, f.

Kurt N. Olson, Director, Beaver Brook Association, Brown Lane, Hollis, N.H. 03049 (Tel. 465-7787) a, b, d, e, f.

Fernand Prevost, Consultant, Mathematics, State Department of Education, 64 North Main Street, Concord, N.H. 03301 (Tel. 271-3607) b, c.

Allie Quinn, Regional Center for Education Training, Wilson Hall, Dartmouth College, Hanover, N.H. 03755 (Tel. 643-4564) b, c, f, g.

Tudor Richards, Director, Audubon Society of New Hampshire, 3 Silk Farm Road, Concord, N.H. 03301 (Tel. 224-9909) a, b, d, e, f.

Barbara Stewart, Piscataquog Watershed Association, RFD #1, Goffstown, N.H. 03045 (Tel. 487-3351) a, b, f.

Waldo Stone, Director, Otter Lake Conservation School, Camp Union, Greenfield, N.H. 03047 (Tel. 547-3412) b, c, d, e, f.

Ned Therrien, Information and Education Assistant, White Mountain National Forest, P. O. Box 638, Laconia, N.H. 03246 (Tel. 542-6450) a, b, c, d, e, f.

Vicki Van Steenberg, AMC Northern New England Regional Office, Pinkham Notch Camp, Gorham, N.H. 03581 (Tel. 466-3994) b, c, d, e, f.

Key:

a Planning school study sites
b Conducting workshops or in-service programs
c Developing lesson plans and curriculum materials
d Plant identification
e Animal identification
f Planning field trips
g Training teacher aides

COLLEGE PROGRAMS IN ENVIRONMENTAL EDUCATION

The following is a list of colleges throughout the state which are offering environmental education programs involving more than a single course, department, or faculty member.

Antioch Graduate School of Education, Harrisville, N.H. 03450

Contact: Marvin Bobes, Director, Graduate Program in Environmental Education (Tel. 827-3070)

Program: For the MST degree, students spend five quarters, starting in July, earning 60 credits, approximately half of which are in education courses and the other half in environment related courses. The basic focus of the program is field ecology and related problems of environmental dynamics and deterioration.

Belknap College, Center Harbor, N.H. 03226

Contact: Virginia Frye, Dean, Founder's Hall (Tel. 279-4576)

Program: Two interdepartmental B.S. degree programs are offered. The environmental science major is designed for science oriented students and provides a technical background, while the environmental studies program is designed with a stronger emphasis in the liberal arts. The college is examining its role and devoting an increased amount of effort to environmental matters.

Canaan College, Canaan, N.H. 03741

Contact: John King, Director of Environmental Education (Tel. 523-4343)

Program: The search for some answers to basic existential questions constitutes the primary effort of the program. In their search the faculty and students scrutinize the physical surroundings of the college, the countryside, the region, and the world at large.

Dartmouth College, Hanover, N.H. 03755

Contact: Gordon J. F. MacDonald, Director, Dartmouth Environmental Studies Program (Tel. 646-1110)

Program: Geared to the undergraduate level, the program attempts to provide a larger number of students with an understanding of the human and ecological complexities involved with our environmental problems. The program may be undertaken in addition to a regular major or as part of a modified major. Students may also elect several of the courses individually.

Franconia College, Franconia, N.H. 03580

Contact: Ronald Haase, Franconia College (Tel. 823-8059)

Program: An interdisciplinary Upper Division forum where students and faculty with diversified interests work on ideas of common concern as they relate to the man-made environment. Participants share in the teaching/learning responsibilities. Emphasis is first focused on social and psychological factors affecting and affected by the physical environment. This is followed by workshops organized around the actual design of environments which are responsive to these factors.

Franklin Pierce College, Rindge, N.H. 03461

Contact: William Preston, Chairman, Biology Department (Tel. 899-5111)

Program: The B.S. degree program in biology offers a possible emphasis in environmental studies through senior year independent study.

Keene State College, Keene, N.H. 03431

Contact: Homer Stavely, Director, Citizen's Decision-making Project (Tel. 352-1909)

Program: An interdepartmental study to improve citizen participation and effectiveness in the decision-making process especially with regard to environmental questions. Interviews, workshops, adult education courses, and the development of a documentation center are planned to begin in the fall of 1973.

New England College, Henniker, N.H. 03242

Contact: Charles Pouglia, Dean, Natural Sciences Division (Tel. 428-2211)

Program: The B.S. degree program in natural science may be undertaken with a concentration in environmental science. Several multidisciplinary courses are offered on an inter-departmental basis including general and specific environmental science, alternate world futures, planning and public health courses.

Plymouth State College, Plymouth, N.H. 03264

Contact: Robert H. Frey, Natural Science Department, Boyd Hall (Tel. 536-1550)

Program: Offering a multidisciplinary course in conservation education fulfilling requirements in social studies and/or natural sciences for full-time students and evening division students.

University of New Hampshire, Durham, N.H. 03824

Contact: David Olson, Director, Institute of Natural and Environmental Resources, Pettee Hall (Tel. 862-1020)

Program: A functional unit of the University which combines teaching, research and community contact work in a single staff of 32 professionals. The undergraduate program offers B.S. degrees in forestry, wildlife management, community development, resource economics, soil science, hydrology, and environment conservation.

University of New Hampshire (continued)

Contact: Gordon L. Byers, Chairman, Water Resources Research Center, James Hall (Tel. 862-2144)

Program: The Center conducts research relating to water resources and usage, as well as using the research to train scientists, and provides a focal point for faculty and student projects in this connection.

PLACES FOR FIELD TRIPS AND/OR SCHOOL CAMPING

There is no real substitute in an environmental education program or effort for actual outdoor experiences. The following, by no means an exhaustive list, outlines some of the better known places where classes may be taken for field trips. Actually, all environments, from urban to rural, are suitable for use as environmental study sites. With imagination and ingenuity, a teacher can use the man-made and natural features found on any site as the basis for an environmental study. Members of local conservation organizations and conservation commissions can recommend possible environmental study sites near the school.

The perennial problem with field trips is the matter and cost of transportation. Again, it is suggested that local service clubs, garden clubs, or interested parents might be enlisted to fund the use of school busses for the extra trips involved.

NATURAL SITES

The Audubon Society of New Hampshire maintains four nature preserves which make excellent places for class field trips. For more detailed information and assistance contact James Mullins, Assistant Director, Audubon Society of New Hampshire, 3 Silk Farm Road, Concord, N.H. 03301 (Tel. 224-9909).

Willard Pond, Antrim, N.H. (open year round)

Bear Brook State Park (Audubon Center), Allenstown, N.H. (open June through October)

Paradise Point, Newfound Lake, Hebron, N.H. (summer only)

Odiorne Point State Park (Audubon Center), Rye, N.H. (summer only)

These installations feature interpretive centers, self-guided nature trails and are staffed by trained naturalists during the open season. Teachers may arrange to use any of these centers on their own at any time of the year by contacting the Audubon Society.

The Society for the Protection of New Hampshire Forests (SPNHF) owns and operates two interpretive centers which are open to the public, as well as sponsoring a series of day labs in conservation. For further information contact Leslie Clark,

Director of Education, SPNHF, 5 South State Street, Concord, N.H. 03301 (Tel. 224-9945).

Lost River Reservation, Kinsman Notch, North Woodstock, N.H. (open mid-May to mid-October). Museum, nature garden featuring 300 varieties of native flowers, nature trails, guided hikes, and a unique chance to explore the geological formations and caves in an ancient river basin.

Monadnock Ecocenter, Monadnock State Park, Jaffrey Center, N.H. (mid-June through October). Museum, nature garden, self-guiding nature trail, slide programs for groups, organized field trips of any length covering history, geology, ecology, flora and fauna.

Day-Lab in Conservation, Outdoor Education, and Field Science, at Bear Brook State Park, Allenstown, N.H. Leslie Clark, the Society's educational director, may be contacted to organize and run a day-long field trip for a class accompanied by their teacher. These trips may be arranged at any time of the school year and will feature a hands-on, discovery technique involving the existing natural conditions in Bear Brook at the time of the trip.

Beaver Brook Association, Brown Lane, Hollis, N.H. 03049

Contact: Kurt Olson, Director, Beaver Brook Association (Tel. 465-7787)

Maintains 1,000-acre demonstration area with several miles of trails. Various self-guided tour books are available for loan or purchase. History, geology, wildlife, water and forestry are all taken into account. Both exemplary and poor management practices are demonstrated. A complete weather research station has recently been added. A limited number of students are involved with a summer work-study program.

Squam Lakes Science Center, Holderness, N.H.

Contact: Gilbert E. Merrill, Director, P.O. Box 146, Holderness, N.H. 03245 (Tel. 968-7194)

The Center serves as an out-of-door museum for the general public in the summertime and a teaching instrument designed to supplement school science curricula during the school year. More than 25 ecology-oriented lecture-demonstrations have been developed

for presentation to school groups. In addition, a series of workshops on grade school ecology are conducted for teachers.

White Mountain National Forest

Contact: Stephen Harper, Information and Education Chief, White Mountain National Forest, P.O. Box 638, Laconia, N.H. 03246 (Tel. 524-6450)

The entire forest area with its mountains, trails, natural areas and public facilities is available for the use of school groups. An outstanding opportunity to study first hand the multiple land use concept in practice where thousands of people are accommodated in various ways at the same time preserving this natural area.

State Fish Hatcheries

Contact: Richard Wentz, Information and Education Officer, N.H. Fish & Game Department, 34 Bridge Street, Concord, N.H. 03301 (Tel. 271-3211)

The department maintains eight fish hatcheries and a game farm which may be visited by teachers and their classes. Prior arrangement must be made with the superintendent in charge of the facility before conducting such a field trip.

Colebrook Fish Hatchery, Colebrook 03576
Leo MacKinnon, Superintendent (Tel. 237-4410)

Merrimack Rearing Station, Route 1, Reeds Ferry 03078
Donald A. Hopkins, Superintendent (Tel. 424-3612)

New Hampton Fish Hatchery, New Hampton 03256
Roswell H. Greene, Superintendent (Tel. 744-3133)

Powder Mill Rearing Station, RFD, New Durham 03855
Frank R. Alden, Superintendent (Tel. 859-2041)

Richmond Rearing Station, RFD 2, Winchester 03470
Milton A. Doubleday, Superintendent (Tel. 239-4810)

Summer Brook Rearing Station, Ossipee 03864
Roy Eldridge, Superintendent (Tel. 539-6624)

Twin Mountain Fish Hatchery, Route 1, Whitefield 03598
Wayne Holden, Jr., Superintendent (Tel. 846-5429)

* Warren Fish Hatchery, Warren 03279
Richard A. Pike, Superintendent (Tel. 764-5576)

* Has a nature trail.

State Game Farm, Brentwood 03833
Walter Stevens, Superintendent (Tel. 642-5252)

Federal Fish Hatcheries

The U.S. Fish & Wildlife Service maintains two federal fish hatcheries in New Hampshire. Prior arrangement must be made with the manager in charge before conducting a field trip to these facilities.

Berlin National Fish Hatchery, York Pond Road,
Berlin 03570
Daniel MacKinnon, Manager (Tel. 449-3412)

Nashua National Fish Hatchery, Nashua 03060
David Goldthwaite, Manager (Tel. 889-1171)

State Parks

Contact: George Hamilton, Director, Division of Parks, State House Annex, Concord, N.H. 03301 (Tel. 271-3254)

The Division of Parks maintains 32 state parks located throughout the state. Any of these public areas could be used for field trip sites and those indicated by an asterisk have maintained nature trails. A brochure describing each of the parks and a separate rate sheet of entrance fees may be requested free of charge from the Division of Parks.

* Bear Brook, Allenstown
Cardigan, Orange
Clough, Weare
Coleman, Stewartstown
* Crawford Notch, Crawford Notch
Echo Lake, North Conway
Ellacoya, Gilford
Forest Lake, Dalton
* Franconia Notch, Franconia and Lincoln
  The Old Man of the Mountains
  Aerial Tramway
  The Flume Gorge
  The Basin
* Greenfield, Greenfield
Hampton State Beach, Hampton
Kingston, Kingston
Milan Hill, Milan
Miller, Peterborough
* Monadnock, Jaffrey
Moose Brook, Gorham
Mount Sunapee, Newbury

* Odiorne Point, Rye
Otter Brook, Keene
Pawtuckaway, Nottingham
Pillsbury, Washington
Rhododendron, Fitzwilliam
Rollins, Warner
Rye Harbor, Rye
Silver Lake, Hollis
Wadleigh, North Sutton
Wallis Sands, Rye
Weeks, Lancaster
Wellington, Bristol
Wentworth, Wolfeboro
White Lake, Tamworth
Winslow, Wilmot Flat

* Parks which have nature trails.

Caroline A. Fox Research and Demonstration Forest, Hillsboro, N.H.

Contact: Dr. Peter H. Allen, Research Forester, P.O. Box 856, State House Annex, Concord, N.H. 03301 (Tel. 271-3456)

A 1,445-acre tract on Center Road, two miles north of Hillsboro. Demonstrations of forest management and forest ecology are being developed as part of a growing environmental education program. Teacher inquiry and field trips are encouraged.

HISTORICAL SITES AND MUSEUMS

The state abounds in historical sites which make excellent multi- and interdisciplinary study areas for field trips. On such trips two or more classes might be combined along with several teachers or resource people, each contributing to a different study perspective.

Atlantic Cable Station, Rye (on N.H. 1-A at Jenness Beach). Receiving station for the first Atlantic cable laid in 1874.

Currier Gallery of Art, Manchester (192 Orange Street). A distinguished collection of 12th-20th century paintings, sculpture, silver, glass, and other decorative arts.

Durgin Bridge, Center Sandwich (1½ miles north of Bennetts Corner on N.H. 113 on Cold River Road), a link in the underground slave railroad.

Old Coal Kiln, Lisbon (on U.S. 302, 1-3/4 miles north of its junction with N.H. 117), used to make wood into charcoal for nearby iron smelters.

Pierce Homestead, Hillsboro (on N.H. 31 near junction with N.H. 9). Home of Benjamin Pierce, revolutionary general and twice governor of New Hampshire. Childhood home of Franklin Pierce, the 14th President.

Shaker Village, Canterbury (off N.H. 106 three miles north of Loudon). Early utopian community organized in 1792, long before the current clamor for communal living. Illustrates a highly developed standard for agricultural efficiency, craftsmanship, and domestic skill.

State Capitol, Concord, New Hampshire (at intersection of Park and North Main Streets).

Stone Arch Bridge, Stoddard (approximately 1/10 mile west of the Stoddard-Antrim town line on N.H. 9), built without mortar and held only by carefully shaped archstones. A significant part of American architectural heritage.

Stone Iron Furnace, Franconia (at Franconia Village on easterly side of N.H. 18-116, about 500 feet south of junction with N.H. 117), only example in New Hampshire of a post-revolutionary furnace for smelting local iron ore. Pig iron was produced for farm tools and the famous "Franconia Stoves."

Strawbery Banke, Portsmouth (at Hancock, Washington, Court, and Marcy Streets). Thirty 17th-19th century houses are being preserved and restored. Restoration process, crafts, exhibits, and a general store are all featured. Admission groups of 10 or more, $1.50; children under 12, $.75.

Uncle Sam's House, Mason (on N.H. 123 about ½ mile south of Mason Village). Home of Samuel Wilson who was known as "Uncle Sam" by the Army, to which he supplied beef in 1812.

Woodman Institute, Dover (182 Central Avenue). The 17th century Damm Garrison House is preserved along with exhibits from all of the American wars.

The N.H. Division of Economic Development, State House Annex, Concord, N.H. 03301, has several brochures and booklets available free upon request which contain a wealth of historic site information and possible locations for other field trips.

Historic Houses and Museums of New England, published by the New England Council

N.H. Historical Markers, published by the N.H. State Historical Commission

Covered Bridges in New Hampshire

Checklist of N.H. Waterfalls

SCHOOL CAMPING

School camping programs provide a chance to increase learning through planning, living, and working together in an outdoor situation.

Otter Lake Conservation School, Camp Union, Greenfield, N.H. 03047

Contact: Waldo Stone, Director, Otter Lake Conservation School (Tel. 547-3412)

Program: Hands-on resident camp for teachers and their students from fourth to sixth grades. A trained staff of professionals and college interns provides an extended classroom experience, usually for five school days. The experience is school-centered in social studies, science, health, conservation, nature and social and personal adjustment. The activities are broad in concept and adapted to the needs of the pupils. The staff will assist in planning pre- and post-camp classroom activities which are essential to the success of the program. In many cases the class carries out money-raising projects to finance the moderate camp fee.

Pembroke Environmental School, 120 Center Road, Concord, N.H. 03301

Contact: Marie Tulin, Director, Pembroke Environmental School (Tel. 485-3831)

Program: The program is similar in style to the one described above.

The following schools are among the few that offer a more rugged backpacking experience for students of high school age.

Holderness School, Holderness, N.H.

Contact: B. K. Ayers, Jr., Holderness School, Holderness, N.H. 03245 (Tel. 536-1257)

Stevens High School, Claremont, N.H.

Contact: John Stoughton, Stevens High School, Broad Street, Claremont, N.H. 03743 (Tel. 542-9931)

Tilton School, Tilton, N.H.

Contact: Richard Fabian, Tilton School, School Street, Tilton, N.H. 03276 (Tel. 286-4342)

SUMMER YOUTH PROGRAMS

Spruce Pond Conservation Camp, Bear Brook State Park, Allenstown, N.H.

Contact: Leslie Clark, Director of Education, Society for the Protection of New Hampshire Forests, 5 South State Street, Concord, N.H. 03301 (Tel. 224-9945)

An intensive week-long resident experience housed in the 4-H facilities at Spruce Pond for boys and girls 14 years or older who want to become youth leaders in their school and community. A team of experts leads twice daily field trips in the conservation and wise use of soil, water, animal and forest resources. Living together cooperatively, recreational participation, open discussions, and leadership roles are all featured.

Hillsborough County 4-H Foundation Day Camp

Contact: Charles Buck, 4-H Youth Development Agent, Box 306, Milford, N.H. 03055

A youth day camp featuring the natural sciences, conservation and outdoor recreation.

4-H Resident Camps at Bear Hill and Spruce Pond, Bear Brook State Park, Allenstown, N.H.

Contact: Rhoda Peck, 4-H Youth Development Specialist, Cooperative Extension Service, University of New Hampshire, Durham, N.H. 03824 (Tel. 862-2180)

Two resident youth camps featuring recreation and cooperative living with emphasis on an appreciation and understanding of nature conservation.

AGENCIES AND ORGANIZATIONS

WHICH WILL PROVIDE TRAINING, ASSISTANCE OR INFORMATION

Training

Appalachian Mountain Club, North Country System, Pinkham Notch, N.H.

Contact: John Nutter, Director of Education, AMC Pinkham Camp, Gorham, N.H. 03581 (Tel. 466-3994)

The Appalachian Mountain Club conducts a series of weekend workshops for teachers each spring and fall. These participatory workshops feature the ecology, weather, geology, soils, wildlife and plants of the White Mountain area. Along with demonstrations of mountain leadership techniques, the participants are prepared to return and use the mountains as an outdoor classroom. One or more 10-day extended workshops following the same pattern are offered to a limited number of teachers each summer.

Cardigan Mountain Workshop and Conservation Camp for Teachers - Adult Youth Leaders

Contact: Leslie Clark, Director of Education, Society for the Protection of New Hampshire Forests, 5 South State Street, Concord, N.H. 03301 (Tel. 224-9945)

A week-long program held each year at the AMC's Cardigan Mountain Lodge just after school closes. Five professional resource instructors lead daily field trips concerning soil, water, animal, and forest resources. The course may be taken for credit through the University of New Hampshire system and is geared for persons with limited science background.

Regional Center for Educational Training, Hanover, N.H.

Contact: Delmar Goodwin, Wilson Hall, Dartmouth College, Hanover, N.H. 03755 (Tel. 643-4564)

A growing program of regional workshop meetings, teacher training programs, and recruitment and training of classroom environmental aides. The Center is also developing model school environmental study sites, teaching units and curriculum materials in environmental education.

Assistance

Cooperative Extension Service

Contact: Paul Fiske, External Affairs Coordinator, University of New Hampshire, Durham, N.H. 03824 (Tel. 862-1029)

The Cooperative Extension Service maintains an office in each county which is staffed by an agent and a forester. The Service provides bulletins, consultative services, and numerous adult and 4-H youth educational programs.

COUNTY	AGENT	FORESTER
BELKNAP Box 368 Laconia 03246 524-1737	Horace C. Ballard	Donald H. Scott
CARROLL Bolduc Block Conway 03818 447-5922	David C. Sorensen	Peter W. Pohl
CHESHIRE 40 Mechanic Street Keene 03431 352-4550	Bruce Clement	John R. Ferguson, Jr.
COOS 148 Main Street Lancaster 03584 788-4961	Leighton C. Pratt	Raymond Patmos
GRAFTON Post Office Building Woodsville 03785 747-2377	J. E. Nordholm, Jr.	Leslie B. Sargent, Jr.
HILLSBOROUGH 2 Mt. Vernon St. Milford 03055 673-2510	Perley D. Colby	Robert W. Breck
MERRIMACK Room 331 55 Pleasant Street Concord 03301 225-5505	David C. Seavey	John A. Conde

COUNTY	AGENT	FORESTER
ROCKINGHAM County Office Bldg. Hampton Road Exeter 03833 772-4711	Edward F. Upham	Stanley W. Knowles
STRAFFORD 62 S. Main Street Rochester 03867 332-5808	Gerald Howe	Donald C. Black
SULLIVAN 45 Crescent Street Claremont 03743 543-3181	William Lord	Joseph Szymujko

Local Conservation Commissions

Contact: Local chairman through the city or town hall.

Conservation Commissions operate under a legislative enabling act and have recently been given an option to include environmental education programs in their activities. A limited amount of Ford Foundation grant monies is available to conservation commissions through the N.H. Association of Conservation Commissions at 5 South State St., Concord, N.H. 03301.

Museum On-going Venture in Education (MOVE)

Contact: Dorcas D. Chaffee, Coordinator, Wilson Hall, Dartmouth College, Hanover, N.H. 03755 (Tel. 643-2348)

The program makes available to classrooms a variety of resources and curriculum-related services. MOVE kits are exhibit and discovery/activity units which contain specimens from the Dartmouth Museum and are available for loan.

New Hampshire Fish & Game Department

Contact: Information and Education Division, Fish & Game Department, 34 Bridge Street, Concord, N.H. 03301 (Tel. 271-3211)

The Department has several films on conservation and hunting safety which may be borrowed for school showing.

New Hampshire State Department of Education

Contact: William B. Ewert, Consultant, Science Education, 64 North Main St., Concord, N.H. 03301 (Tel. 271-3293)

The Department's Division of Instruction and Division of Vocational-Technical Education have assisted in the establishment of several environmental education school programs in the state and will answer requests for information and help in instituting environmental education courses, programs, and in-service workshops.

North Country Resource Conservation and Development Project

Contact: William Hauck, Project Coordinator, North Country Resource Conservation & Development Project, Post Office Building, Littleton, N.H. 03561 (Tel. 444-7744)

A Cooperative Extension Service project which will provide consultation in the design and establishment of outdoor school study sites.

Resource Development Center at University of New Hampshire

Contact: William Henry, Chairman, Resource Development Center, University of New Hampshire, Durham, N.H. 03824 (Tel. 862-1880)

Adult environmental education is given top priority in the distribution of University/Spaulding-Potter, and Title I Higher Education Act funds to colleges in the state. The Center has funded more than 20 adult programs in environmental education and conservation.

U.S.D.A. Soil Conservation Service

Contact: David Allan, Biologist, Soil Conservation Service, Federal Building, Durham, N.H. 03824 (Tel. 868-7581), or your county Soil Conservation Service officer.

The Soil Conservation Service will assist in the planning, design, and layout of ourdoor school study areas. Aerial photographs and soil maps of the area can be supplied. Also, an excellent series of conservation booklets in comic book format are available from the local office. The following is a list of county Soil Conservation Service officers:

COUNTY	SCS DISTRICT CONSERVATIONIST	OFFICE ADDRESS
BELKNAP	Clement A. Lyon, Jr.	P.O. Box 581 Forestry Building 719 Main Street Laconia 03246 524-6615
CARROLL	James A. Haine, Jr.	P.O. Box 533 319 Main Street Conway 03818 447-2771
CHESHIRE	John D. Allen	P.O. Box 705 Room 210 U.S. Postal Service Building 196 Main Street Keene 03431 352-3602
COOS	Calvin J. Perkins	Piche Building 99 Main Street Lancaster 03584 788-4651
GRAFTON	W. Michael Dannehy	P.O. Box 229 31 Court Street Federal Building Woodsville 03785 747-2001
HILLSBOROUGH	Edward F. Hutchinson	P.O. Box 109 Elm Street Milford 03055 673-2409
MERRIMACK	Arthur H. Luce	Federal Building 55 Pleasant Street Concord 03301 225-6401
ROCKINGHAM	James F. Hayden	P.O. Box 190 Federal Building Front Street Exeter 03833 772-3141
STRAFFORD	David A. Bennett	Federal Building 62 S. Main Street Rochester 03867 332-2588
SULLIVAN	Guy E. Wheelock, Jr.	25 Mulberry Street Claremont 03743 542-6681

White Mountain National Forest

Contact: Stephen Harper, Information & Education Chief, P.O. Box 638, Laconia, N.H. 03246 (Tel. 524-6450)

The Forest Service will provide assistance in setting up outdoor study sites and has trained personnel to conduct teacher workshops in process education.

Additional assistance might be secured from the owners, managers, or superintendents of local industries. In addition, local service clubs are often interested in supporting local projects, either with personnel or financial assistance. Local Kiwanis, Lions, and Rotary Clubs should be contacted when plans for an environmental education program have been firmed and definite needs are known. Both the League of Women Voters and the Junior Chamber of Commerce chapters have mandates from their national organizations to encourage conservation and environmental education projects.

Information

State

Air Pollution Control Commission, Air Pollution Control Agency, 61 S. Spring Street, Concord, N.H. 03301 (Tel. 271-2281)

N.H. Department of Resources & Economic Development, State House Annex, Concord, N.H. 03301 (Tel. 271-2216)

Division of Economic Development (Tel. 271-2343)

Division of Parks (Tel. 271-3254)

Division of Resource Development (Tel. 271-2216)

N.H. Division of Pesticides Control, State House Annex, Concord, N.H. 03301 (Tel. 271-3550)

N.H. Fish and Game Department, 34 Bridge Street, Concord, N.H. 03301 (Tel. 271-3422)

Northeastern Forest Experiment Station, U.S. Forest Service, Department of Agriculture, Box 640, Durham, N.H. 03824 (Tel. 868-5576)

Office of Comprehensive Planning, William Humm, Assistant Resources Director, State House Annex, Concord, N.H. 03301 (Tel. 271-2156)

Water Resources Board, State House Annex, Concord, N.H. 03301 (Tel. 271-3406)

Water Supply and Pollution Control Commission, Prescott Park, 105 Loudon Road, Concord, N.H. 03301 (Tel. 271-3502)

Private

Citizens for a Cleaner Environment, 814 Elm Street, Manchester, N.H. 03101 (Tel. 668-2222)

Conservation Law Foundation, 506 Statler Office Building, Boston, Mass. 02217 (Tel. 617/542-1354)

Hanover Conservation Council, 18 Rayton Road, Hanover, N.H. 03755 (Tel. 643-4342)

League of Women Voters. Contact the local chapter or the state office at 7 South State St., Concord, N.H. 03301 (Tel. 224-1640)

Natural Resource Council, 5 South State St., Concord, N.H. 03301 (Tel. 224-9945)

New Hampshire Audubon Society, 3 Silk Farm Road, Concord, N.H. 03301 (Tel. 224-9909)

New Hampshire Federation of Garden Clubs, Box 282, New Castle, N.H. 03854 (Tel. 436-6956)

New Hampshire Federation of Women's Clubs, 35 Mountain Road, Concord, N.H. 03301 (Tel. 225-2237)

Seacoast Anti-pollution League, Route 84, Hampton Falls, N.H. 03844 (Tel. 742-1097)

Society for the Protection of New Hampshire Forests, 5 South State St., Concord, N.H. 03301 (Tel. 224-9945)

SPACE: Statewide Program of Action to Conserve our Environment, Box 757, Concord, N.H. 03301 (Tel. 679-8731)

National

Agricultural Research Service, U.S. Department of Agriculture, Public Inquiries Unit PB, Information Division ARS, Room 724A FCB, Hyattsville, Maryland 20782

American Association of University Women, 2401 Virginia Ave., N.W., Washington, D.C. 20037

Atomic Energy Commission, Division of Public Information, Washington, D.C. 20540

Bureau of Land Management, U.S. Department of the Interior, Washington, D.C. 20240

Bureau of Mines, U.S. Department of the Interior, Washington, D.C. 20240

Bureau of Outdoor Education, U.S. Department of the Interior, Washington, D.C. 20240

Bureau of Sport Fisheries and Wildlife, U.S. Department of the Interior, Washington, D.C. 20240

Clean Water, Washington, D.C. 20242

Conservation Foundation, 1250 Connecticut Avenue, N.W., Washington, D.C. 20036

Department of Transportation, Office of Environmental Policy, FHWA, U.S. Department of Transportation, Washington, D.C. 20591

Environmental Protection Agency, Public Affairs Office, Public Inquiries, Rockville, Maryland 20852

Environmental Science Service Administration, U.S. Department of Commerce, Rockville, Maryland 20852

ERIC/ChESS (Clearing house for Social Studies/Social Science Education), 970 Aurora, Boulder, Colorado 80302

ERIC/SMEC (Science and Mathematics Education Clearing house), Ohio State University, Columbus, Ohio 43221

Federal Water Pollution Control Administration, Crystal Mall Building 2, 1921 Jefferson Davis Highway, Arlington, Virginia 22203

Food and Drug Administration, Office of Consumer Affairs, U.S. Department of Health, Education and Welfare, 5600 Fishers Lane, Rockville, Maryland 20852

Friends of the Earth, 30 East 42nd Street, New York, N.Y. 10017

Izaak Walton League of America, 1326 Waukegan Road, Glenview, Illinois 60025

Keep America Beautiful, 99 Park Avenue, New York, N.Y. 10016

National Aeronautics and Space Administration, NASA Scientific and Technical Information Facility, P.O. Box 33, College Park, Maryland 20740

National Bureau of Standards, Office of Technical Information and Publications, Washington, D.C. 20234

National Marine Fisheries Service, U.S. Department of Commerce, Washington, D.C. 20240

National Park Service, U.S. Department of the Interior, Washington, D.C. 20240

National Parks Association, 1701 18th Street, N.W., Washington, D.C. 20036

National Urban League, 55 East 52nd Street, New York, N.Y. 10022

National Wildlife Federation, 1412 16th Street, N.W., Washington, D.C. 20036

The Nature Conservancy, Suite 800, 1800 N. Kent Street, Arlington, Virginia 22209

Planned Parenthood, World Population, 515 Madison Avenue, New York, N. Y. 10022

Population Reference Bureau, 1955 Massachusetts Avenue, N.W., Washington, D.C. 20036

Project Man's Environment, National Education Association, 1201 16th Street, N.W., Washington, D.C. 20036

Public Affairs Pamphlets, 381 Park Avenue, South, New York, N.Y. 10016

Sierra Club, Mills Tower, San Francisco, California 94104

Tennessee Valley Authority, TVA Information Office, Knoxville, Tennessee 37902

The Urban Coalition, 2100 M Street, N.W., Washington, D.C. 20037

U.S. Commission on Population Growth and the American Future, 726 Jackson Place, N.W., Washington, D.C. 20506

U.S. Department of Agriculture Forest Service, South Agriculture Building, Washington, D.C. 20250

U.S. Department of Agriculture Soil Conservation Service, Educational Relations, Information Division, Washington, D.C. 20250

U.S. Department of Housing and Urban Development, Information Center, 451 7th Street, S.W., Room 1202, Washington, D.C. 20410

U.S. Geological Survey, Information Office, Washington, D.C. 20240

U.S. Office of Education, Office of Environmental Education, Regional Office Building, 7th and D Streets, S.W., Washington, D.C. 20202

U.S. Water Resources Council, 2120 L Street, Washington, D.C. 20037

The Wilderness Society, 729 15th Street, N.W., Washington, D.C. 20005

Zero Population Growth, 367 State Street, Los Altos, California 94022

For further listings:

Directory of Environmental Groups in New England, Environmental Protection Agency, September 1971.

Conservation Directory, National Wildlife Federation, Washington, D.C.

A Survey of Environmental Science Organizations in the U.S.A., Dr. J. Y. Wang and Raymond Balter, Environmental Sciences Institute, San Jose, California, 1970.

CURRICULUM MATERIALS

Affective Development Project. Room 329, Board of Education, Philadelphia, Pa. 19103.

Air Pollution, Water Pollution, and Noise Pollution. Addison-Wesley Publishing Company, Inc., Reading, Mass., 1971. Grades 7-9. Science.

A Place to Live. National Audubon Society, Audubon Center of Greenwich, 613 Riversville Road, Greenwich, Ct.

BSCS Green Version: High School Biology. Rand McNally and Company, 1968. Grades 9-12. Biology.

Case Studies. Wellesley Curriculum Center, Wellesley, Mass. 02181.

Chicago Public High School for Metropolitan Studies, 537 Dearborn St., Chicago, Ill. 60605. Grades 9-12. All subject areas (High School without Walls).

Concepts and Inquiry. Allyn & Bacon, Inc., 470 Atlantic Ave., Boston, Mass. 02210, 1970-1973. Grades Kindergarten-9; materials for grades 10-12 presently being tested and revised. Multidisciplinary anthropology, economics, geography, history, political science, psychology, and sociology.

Conservation and Environmental Studies Center, Inc., Box 2230, R.D. 2, Browns Mills, N.J. 08015. Elementary and junior high school. Science, social studies, outdoor education, mathematics, language arts, environmental education.

Conservation and Outdoor Education Program, 601 W. Stadium Blvd., Ann Arbor, Mich. 48103. K-12. Science, social studies.

A Curriculum Activities Guide to Water Pollution and Environmental Studies, Vol. 1 and 2 (Tilton School Water Pollution Program). Institute for Environmental Education, 2803 Scarborough Road, Cleveland Heights, Ohio 44118. Grades 7-12. Interdisciplinary.

Eco-Kit, Audio-tutorial materials. Project DISPERSE, Harry Haakonsen, So. Connecticut State College, 501 Crescent St., New Haven, Ct. 06515.

Economics in Society (Formerly ECON 12). Addison-Wesley, 2725 Sand Hill Road, Menlo Park, Cal. 94025, 1972. High school, junior college. Economics, problems of democracy, American government.

The Economics of Pollution. Joint Council on Economic Education, 1212 Avenue of the Americas, New York, N.Y. 10036, 1970. Grades 9-12. Economics.

Ekistics. California State Department of Education, State Education Building, 721 Capitol Mall, Sacramento, Cal. 95814. Grades 1-12. Environmental education.

Elementary Economics Project. Benefic Press, 10300 W. Roosevelt Road, Westchester, Ill. 60153, 1971. Grades 6-8. Economic core, geography, political science, and sociology.

Elementary Science Study of Education Development Center, Inc. 55 Chapel Street, Newton, Mass. 02160.

Environmental Education Program. Madison Public Schools, 545 W. Dayton St., Madison, Wis. 53703. Grades K-12. Interdisciplinary.

Environmental Repair Kit. Talcott Mountain Science Center, Avon, Connecticut 06001. Grades 4-6. Environmental education.

Environmental Science Center. Minnesota Environmental Sciences Foundation, Inc., 5400 Glenwood Ave., Minneapolis, Minn. 55422, or National Wildlife Federation, 1412 16th St., N.W.,

Washington, D.C. 20036, 1969. Grades K-12. Interdisciplinary.

Environmental Studies Project, Box 1559, Boulder, Col. 80302, 1970-1972. Grades 1-12. Multidisciplinary.

Family of Man. Selective Educational Equipment, Inc., 3 Bridge St., Newton, Mass. 02195, 1971-1973. Grades K-5. Interdisciplinary.

Field Social Studies Program. Field Educational Publications, Inc., 2400 Hanover St., Palo Alto, Cal. 94304, 1970. Grades 1-4. Multidisciplinary social sciences.

High School Geography Project. The Macmillan Company, School Division, 866 Third Ave., New York, N.Y. 10022, 1969-1970. Grades 10 (7-12). Geography core, anthropology, economics, history, political science, and sociology.

Man: A Course of Study. Curriculum Development Associates, Inc., Suite 414, 1211 Connecticut Ave., N.W., Washington, D.C. 20036. Grades 4-6. Social studies.

The Man Made World. McGraw Hill Book Co., Manchester Rd., Manchester, Mo. 63011, 1967. Grades 11-12. Science.

National Environmental Education Development (NEED), National Park Service, U.S. Department of the Interior, Washington, D.C. 20240. Grades K-12. Interdisciplinary.

National Environmental Study Area (NESA) Program, National Park Service, U.S. Department of the Interior, Washington, D.C. 20240. Grades K-12. Interdisciplinary.

Our Man-Made Environment, Book Seven. Group for Environmental Education, 1214 Arch St., Philadelphia, Pa. 19107, 1970. Grades 4-11. Environmental education, interdisciplinary.

Our Working World. Science Research Associates, 259 E. Erie St., Chicago, Ill. 60611, 1973. Grades 2-3. Economics core, multidisciplinary social sciences.

Parkway Program, School District of Philadelphia, c/o The Franklin Institute, 20th and the Parkway, Philadelphia, Pa. 19103. Secondary grades. All subjects.

Planning for Change. Center for Urban Education, 105 Madison Ave., New York, N.Y. 10016, 1970. Grades 4-6. Political science, urban planning.

Project I-C-E (Instruction-Curriculum-Environment), 1927 Main St., Green Bay, Wis. 54301. Grades K-12. Language arts, social studies, science.

Providence Social Studies Curriculum. Rhode Island College Bookstore, 600 Mt. Pleasant Ave., Providence, R.I. 02908, 1969. Grades K-12. History, geography.

Regional Environmental Education Program, McCarthey St., Yarmouth, Maine 04096. Grades K-12. Environmental education.

Science Curriculum Improvement Study (SCIS). Rand McNally & Company, 1968-1970. Elementary grades. Science.

Slow Learner Project. Holt, Rinehart and Winston, Inc., 383 Madison Ave., New York, N.Y. 10017, 1972. Grade 9. Urban studies.

Social Issues Resource Series, Exotech Systems, Inc., 525 School Street, S.W., Washington, D.C. 20024, 1972. Grades 10-12 (7-9). Problems of democracy.

Social Studies Project. American Education Publications, Education Center, Columbus, Ohio 43210, 1967, 1969. Grades 7-12. Political science, history of science, ethics.

This Crowded World (grades 4-6), People (grades 7-9) and The World Population Dilemma (grades 10-12). Population Reference Bureau, Columbia Books, 424 Southern Building, N.W., Washington, D.C. 20005.

Voices for Justice. Ginn and Company, Lexington, Mass. 02173, 1970. Grade 9 (10-12). Civics, government, problems of democracy.

Environmental Education Materials: A Catalogue of Reviewed and Evaluated Free and Low-cost Materials for Science, Social Studies, and Industrial Arts. National Science Teachers Association, 1201 16th Street, N.W., Washington, D.C. 20036. $2.00. Stock No. 471-14650.

A brief description and review of most of the programs and materials listed above may be found in Environmental Education Programs and Materials, PREP Report No. 33, published by the U.S. Department of Health, Education and Welfare. This booklet is available as stock number 1780-01093 for $1.00 from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

ENVIRONMENTAL EDUCATION BIBLIOGRAPHIES

Children's Ecology Books, Martha Lussenhop. Cooperative Children's Book Center, 411 West, State Capitol, Madison, Wis. 53702, 1971.

Conservation Education - A Selected Bibliography. The Interstate Printers and Publishers, Danville, Ill., 1968. 98 pp. An annotated bibliography dealing with water and air pollution, population, and land conservation.

Environmental Awareness Reading List from the U.S. Department of the Interior Library. National Park Service, Department of the Interior, Washington, D.C. Mimeographed list of readings and materials. Available free on request.

Environmental Education Bibliography, prepared by the Massachusetts Audubon Society for the United States Office of Education. Available in four sections:

Section I - For Pre-school-Grade 3
Section II - For Grades 4-6
Section III - For Grades 7-9
Section IV - For Grades 10-14

From: Margaret McDaniel, Librarian, the Massachusetts Audubon Society, South Great Road, Lincoln, Massachusetts 01773. Each section costs 50¢. Annotated bibliographies of curriculum materials, films, graphics, recordings, books for students and books for teachers (includes both activity guides and background reading).

Environmental Education for Everyone - Bibliography of Curriculum Materials for Environmental Studies, March 1970. Available from: The National Education Association, 1201 Sixteenth Street, N.W., Washington, D.C. 20036. 75¢ each. Stock No. 471-14600. This is a 36-page comprehensive bibliography. It includes programs in environmental education, curriculum guides, textbooks, experiments, enrichment readings, periodical listings, film strips, film lists, and other invaluable materials for environmental studies.

How Can Our Physical Environment Best Be Controlled and Developed? A collection of excerpts and bibliography relating to the high school debate topic, 1970-1971. Compiled by The Legislative Reference Service of the Library of Congress. Available from: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Price $1.00.

Programs in Environmental Education, compiled by The National Science Teachers Association, 1970. Available from NEA Publications Sales, 1201 16th Street, N.W., Washington, D.C. 20036. $1.50 each. Stock No. 471-14394. A state-by-state listing of both local and ESEA, III funded environmental education programs.

Sourcebook for Population-Environment Studies. Experimental Education Population Curriculum Study, University of Delaware, 205 Willard Hall, Newark, Del. 19711. Three annotated sections (books, periodicals, and films) designed to assist the teacher or administrator in the selection of materials for environmental education.

ENVIRONMENTAL EDUCATION FILM LISTS

Conservation and Environmental Films 1971-72. U.S. Department of the Interior, Office of the Secretary, National Park Service, Washington, D.C. 20240. A free annotated list of 90 16mm. sound color films on conservation, environment, and related natural resource subjects.

Critical Index of Films on Man and His Environment. Interstate Publishers, 19 N. Jackson St., Danville, Ill. 61832.

The Environmental Film Review: A Critical Guide to Ecology Films. Environmental Information Center, Inc., Film Reference Department, 124 East 39th Street, New York, N.Y. 10016. $20.00. One of the most complete and up-to-date film lists available.

Guide to Films (16mm.) About Ecology Adaptation and Pollution. Serina Press, 70 Kennedy Street, Alexandria, Va. 22305. A brief list of films available from 28 producers, distributors and university audiovisual media centers.

New Hampshire Film Sources

The following agencies have films for loan to schools.

N.H. Department of Resources & Economic Development, State House Annex, Concord 03301 (Tel. 271-2343)

N.H. Fish and Game Department, Information and Education Division, 34 Bridge Street, Concord 03301 (Tel. 271-3211)

N.H. State Library Films. Arrange for borrowing through the local or nearest library.

Society for the Protection of New Hampshire Forests, 5 South State Street, Concord 03301 (Tel. 224-9945). A $5.00 rental fee is charged for the Society films. Of special note is the Society's new film entitled The Flooding River, a film which presents the dynamics of a river flood plain.

University of New Hampshire Film Library, J. Eldon Walton, Audio-visual Librarian, Hewitt Hall, U.N.H., Durham, N.H. 03824 (Tel. 862-2240)

White Mountain National Forest, Stephen Harper, Information and Education Chief, P.O. Box 638, Laconia 03246 (Tel. 524-6450)

PERIODICALS

American Forests American Forestry Association, 919 17th Street, N.W., Washington, D.C. 20006. $7.50 per year.

Audubon National Audubon Society, 950 Third Ave., New York, N.Y. 10022. $10.00 per year with membership.

Biology Teacher National Association of Biology Teachers, 1420 N Street, N.W., Washington, D.C. 20005

Catalyst for Environmental Quality 274 Madison Ave., New York, N.Y. 10016. $5.00 per year.

The Conservationist State of New York Department of Environmental Conservation, Albany, N.Y. 12201. $2.00 per year.

Ecology Today Ecological Dimensions, Inc., P.O. Box 180, West Mystic, Conn. 06388.

Environment Circulation Department, Environment, 438 N. Skinker Blvd., St. Louis, Mo. 63130. 10 issues per year, $8.50.

Environmental Action Environmental Action, Inc., Room 731, 1346 Connecticut Ave., N.W., Washington, D.C. 20036. $7.50.

Forest Notes Society for the Protection of New Hampshire Forests, 5 South State St., Concord, N.H. 03301. With membership: $4.00 per student; $7.50, individual.

Humanities National Endowment for the Humanities, Washington, D.C. 20506.

The Journal of Environmental Education Dembar Educational Research Services, Inc., Box 1605, Madison, Wis. 53701. $7.50.

Media and Methods 134 N. 13th Street, Philadelphia, Pa. 19107. $5.00 per year.

The Mother Earth News P.O. Box 38, Madison, Ohio 44057. $5.00 per year.

New Hampshire Audubon Magazine Audubon Society of N.H., 3 Silk Farm Road, Concord, N.H. 03301.

New Hampshire Natural Resources N.H. Fish and Game Department, Information and Education Division, 34 Bridge St., Concord, N.H. 03301.

The Science Teacher and Science and Children National Science Teachers Association, 1201 16th Street, N.W., Washington, D.C. 20036. $4.00 per year.

Social Education National Council for Social Education, 1201 16th Street, N.W., Washington, D.C. 20036. $10.00 per year. (The January 1971 issue, Vol. 35, No. 1, was devoted especially to the "Environmental Crisis")

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Bennett, Dean B. et al, Guidelines for Planning and Implementing a Comprehensive Community Environmental Inventory. Maine Environmental Education Project, Yarmouth, Maine, 1972.

Bernarde, Melvin A., Our Precarious Habitat. W. W. Norton & Company, New York, 1970. $2.95.

Brandwein, Paul F. and Brennan, Dr. Matthew J., eds., People and their Environment: Teachers' Curriculum Guide to Conservation Education, J. G. Ferguson Publishing Company, 6 N. Michigan Ave., Chicago, Illinois, 8 vols., 1969.

Commoner, Barry, Science and Survival. Viking Compass, N.Y. 1968. $1.35.

The Cutting Edge or How to Innovate and Survive. Environmental Studies Project, Box 1559, Boulder, Colorado 80302.

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Henderson, Martha, Social Studies Sources and Approaches, Document #ED 042 062, ERIC Document Reproduction Service, 4936 Fairmont Avenue, Bethesda, Md. 20014 (specify hard cover, $1.50).

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National Environmental Study Area: A Guide. U.S. Department of the Interior, National Park Service Office of Environmental Interpretation. $.75.

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